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15. (Amended) The cassette of claim 11, wherein said top and bottom portions are molded of a synthetic plastic material.

16. (Amended) The cassette of claim 11, further comprising a pre-formed foam block in said hollow.

## Please add new claims 17-38 reading as follows:

- --17. The cassette of claim 11, further comprising agarose in said hollow.
- 18. The cassette of claim 11, further comprising both agarose and pre-formed foam block in said hollow.
- 19. The cassette of claim 16, further comprising filter paper positioned in said hollow to retard egress of molten paraffin.
  - 20. A method for preparing a tissue sample for analysis, comprising the steps of:
  - (a) orienting the tissue sample in the cassette of claim 11;
  - (b) embedding an oriented tissue sample in a porous embedding media; and
- (c) directly processing the embedded tissue sample with tissue processing reagents while maintaining the original orientation of the sample without a post-processing paraffin-embedding step.
  - 21. The method of claim 20, wherein the porous embedding media comprises agarose.
- 22. The method of claim 20, wherein the process embedded media comprises a preformed foam.
- 23. The method of claim 22, wherein the tissue sample is oriented in an opening or depression formed in said pre-formed foam.
- 24. The method of claim 23, including the step of forming said opening or depression by cutting, drilling, punching or molding.

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- 25. The method of claim 23, wherein the tissue sample is embedded flush with or below an outer surface of the pre-formed foam.
- 26. The method of claim 23, wherein the pre-formed foam comprises a preformed block of phenolic foam.
- 27. The method of claim 21, wherein said agarose has a melting point in the range of about 55 to 65°C.
- 28. The method of claim 20, further including the step of sectioning the embedded tissue sample following processing.
- 29. The method of claim 20, wherein said tissue processing reagents are selected from the group consisting essentially of aqueous formalin, water, xylene, alcohol and paraffin.
- 30. A hollow cassette for receiving and retaining a tissue specimen for fluid treatment preparatory to histological examination, comprising a top portion and a bottom portion snap or friction mounted to the top portion, the bottom portion having a side wall removable along a tear line, the hollow being filled, at least in part, by a porous embedding medium.
- 31. The cassette of claim 31, wherein said porous embedding medium comprises agarose and/or a pre-formed foam.
- 32. The cassette of claim 30, wherein said removable side wall bridges said top and bottom portions.
- 33. The cassette of claim 30, wherein said removable side wall includes a pair of tear lines.
- 34. The cassette of claim 30, wherein said removable wall includes a projecting tab to facilitate removal of said wall.
- 35. The cassette of claim 30, wherein said top and bottom portions are molded of a synthetic plastic material.

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